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[CITATION] Cryptology for digital TV broadcasting

Pat Monr, D Christenher - *Proceedings of the IEEE*, 1998

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[CITATION] A common conditional access interface for digital videobroadcasting ...

JL Castellet, V Lenoir, A Corbet, D Sarda, J Seger, ES - *IEEE Transactions on* ..., 1995

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Smart-card based access control system with improved security

JW Chaney - *US Patent 5,852,200*, 1999 - [Google Patents](#)

... To aid in preventing unauthorized access to scrambled signals, the key is changed frequently, eg every two seconds. Thus, EMM data occurs frequently in the signal. EMM and EMM data is transferred to the smart card for processing via the serial I/O terminal of the IC. ...

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[CITATION] Conditional access mechanisms for all-digital broadcast signals

D Engelhard, JL Gluckhert, US PATENT - *IEEE Transactions on Consumer Electronics*, 1992

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Apparatus and method for access control

EC Oient, C Macraena - *US Patent 5,481,575*, 1995 - [Google Patents](#)

... This prevents the smart card from receiving EMM packets intended for it and unlimited unauthorized access results. A third attack approach involves several steps. First, the hacker registers as an official subscriber but does not pay the subscription fee. ...

Cited by 1 - [Related articles](#) - All 2 versions

[CITATION] Evolution of the digital set top box

TH Hurley - *Broadcasting Convention, International (Conf. Publ. no. ...*, 1998

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Conditional access filter as for a packet video signal inverse transport system

US Patent 5,852,200, 1999 - [Google Patents](#)

... In a packet video system of the 35 aforementioned type, entitlement data may be included in specific packets which are recognizable as containing such data for easy access by smart card circuitry. A large area broadcast system, such as a direct broadcast satellite system, ...

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Illegal view/copy protection method and apparatus for digital broadcasting system

YB Kim, TJ Park - *US Patent 5,793,024*, 1998 - [Google Patents](#)

... EMM descramble (CPTC1 CA & CF enable smart card EMM "1" out-disable & read state &--- record of digital output controller CA & CF software (controller) enable-erase] 252 to input port 1, of 1 (1) ... 5VCH -255 FI 0.24 , CPTC1 Tape state signal filter EMM enable-erase ID ...

Cited by 11 - [Related articles](#) - All 1 versions

Dual card smart card reader

SE Schimrowitz, SR Morris, D Barry - *US Patent 5,762,662*, 1998 - [Google Patents](#)

... To fabricate a single fold optical surface emm keeps (yes!) - lasers 4", magnifier that is useful in smart card readers the ... Also, the plurality of optical elements, including first which essentially translates into a digital system. Acousto-optical element 40 and optical lens 47 ...

Cited by 9 - Related articles - All versions

patent Systems issues in the implementation of DVB Simulcrypt

PL Dayson, RF Ockard - Broadcasting Convention, 1997, International, 1997

Cited by 2 - Related articles - All versions

Smart card with integrated reader and visual image display

KE Jankiewicz, BR Noyes - US Patent 5,754,184, 1998 - Google Patents

... a two dimensional ray convertecing information from the microchip 14 to the of emm devices connected ... light outlet 56 of optical lens 57 is essentially translates into a digital system ... on the smart card for viewing of a viewing aperture, embodiment of smart card with reader ...

Cited by 1 - Related articles - All versions

[CITATION] ... key distribution management for conditional access system onpay-TV ...

PK Tai, CS Loh, HJ Tang - IEEE Transactions on Consumer Electronics, 1989

Cited by 25 - Related articles - All versions

[CITATION] Digital DBS system design and implementation for TV and ...

W Sater, CH Kwon, JS Chae - IEEE Transactions on Broadcasting, 1984

Cited by 3 - Related articles - All versions

EMM: SECURE: A solution to the copyright barrier to access to information

D JANCIEK, J MILLER, E SCHWARTZ, T WESLEY - 1996 - doi page

... Tom WESLEY University of Bradford Management Centre, Emu Lane, Bradford West Yorkshire, UK-BD9 ... ECMS provide authors, publishers, and distributors of digital objects with tamper resistant mechanisms ... is implemented on a standard Windows PC with a smart card reader ...

Cited by 1 - Related articles - Cited

How to integrate access control mechanisms into digital HDTV systems?

V Mikhov, J Blazewicz - Signal Processing, Image Communication, 1997 - Elsevier

... control in digital TV systems class, pre-looked pay-per-view or impulse pay-per-view, per programme ... be deeply changed when adapted to a new system (consequently, the same smart card can be ... ECM and EMM not be considered as useful data that can never be scrambled ...

Cited by 1 - Related articles - All versions

Information Technology and Health Care

SMA Shah - JOURNAL PAKISTANI MEDICAL ASSOCIATION, 1998 - scghgmu.com

... Thus, increasing the ability of physicians, nurses, clinical technicians, and others to readily access and use ... Electronic materials management (EMM) ... Health community smart card helps health care providers build patient's relationship, increase process efficiencies, and improve ...

Cited by 1 - Related articles - View on IEEE - All versions

patent A DBS Digital Television System Using MPEG Compression and High ...

US Docs - IEEE - 1994 International Conference on Consumer ... 1994

Cited by 1 - Related articles - All versions

Time-shifted conditional access

PL Jankiewicz - US Patent 5,521,406, 1999 - Google Patents

... decryption of encrypted master words and, if appropriate, decryption of entitlement management messages EMM ... Alternatively, the security device may be a smart card, which is detachable from a receiving unit ... In a digital pay-TV system, the pirate master is as good as gone or nearly ...

Cited by 1 - Related articles - All 3 versions

Packet video signal inverse transport system

W. Oates - US Patent 5,514,873, 1996 - Google Patents

... Nominally **broadcast digital** signals will have been error encoded using, for example, Reed-Solomon forward error correcting (FEC) coding. ... The **EMM** may include data, which, when processed by the **smart card**, will enable or deny reception of particular programs in ...

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Interfacing a conditional access circuit to a digital device using input and output ...

En. Lindgren - US Patent App. 09/16,500, 1999 - Google Patents

... An **EMM** is a message used to deliver privileges (eg. rights, keys) to a CA device. ... of CA devices or modules: an NRS's part A module supporting a smart card form factor ... source, method of relaying and decoding, copy management commands that provide digital receivers and ...

All 6 cited to

[CITATION] Tools for the validation of conditional access functions inEurocrypt

J. Hoon - Proceedings Convention, 1992-93 - International, 1992

Method for access control

E. Enoki, O. Nontachai - 1997 - freepatentsonline.com

... EP0822252. A system for controlling access to broadcast transmissions. Attorney, Agent or Firm: Harbeck, Dgt. ... Once the **smart card** finds an **EMM** message dedicated to itself, the card will compare the time stamp information stored in the card. ...

Decoder and security module for a digital transmission system

C. Luchini - 1998 - freepatentsonline.com

... for subscription mode and to renew the rights automatically each month. a Pay Per View Channel ... the **smart card** so an identification of the monthlong access system associated with that **smart card**. ... 1 a first conditional access system is associated with ECM and EMM data in ...

Related articles

Preventing fraudulent access in a conditional access system

McMILLARD, Brian David - 1998 - freepatentsonline.com

... W01998/008504A1, SMART-CARD BASED ACCESS CONTROL SYSTEM WITH IMPROVED SECURITY. ... In existing systems, Figure 3 shows part of the structure of an **EMM** encrypted in ... the end user may purchase events in either a subscription mode or a Pay-Per-View mode. ...

All 7 versions

Security device managed access to information

PLAID Hampton, Inc. F. Rowlett - US Patent App. 08/851,394, 1997 - Google Patents

... in a pay TV system, the information INF may comprise a pay-TV series movie of which the description is "James Bond, Dr. No, action category, 12 year and older, broadcast April 16, at ... The controller CCM may also transfer the entitlement messages **EMM** to the **smart card** IC. ...

All 4 versions

A Trusted Third Party Network for the European Access Control System

ESA Teledetection - Global Information Infrastructure (GII) ... 1998 - books.google.com

... The **smart card** will have the advantage of providing a high level of security, by allowing to store ... Open ACS Presently, two philosophies are discussed inside groups concerned with access control for digital services: a ... 1 **EMM** is an European Broadcast Union standard concept ...

Related articles - All 2 versions

... COMMUNICATION OF INFORMATION BETWEEN A PLURALITY OF DIGITAL

J. Deane - J. Rempeck - 1998 - freepatentsonline.com

... rights for subscription mode and to renew the rights automatically each month, a Pay Per View
Chair, sees ... to decide the EMM is changed every month or so by means of an operator EMM ... on
a security module associated with the decoder. In this case the smart card 30 provided ...

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CITATION: An Implementation Of Digital Dns Encoder With Dvb Scrambler

On Hae KT Yang, Ts Kim, Os Os - *Consumer Electronics, 1998. ICCS. 1998 Digest* ... , 1998

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CITATION: THAM 20.4

On Hae, KT Yang, Ts Kim, Os Os - *ICCSE, 1998* - Institute of Electrical & Electronics ...

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
Method of scrambling and of unscrambling composite video signals, and device for ...

F Dorval, JO Guilhem, F Renard - *US Patent 5,224,161, 1993* - Google Patents

... as used in "chip cards" (microprocessor card also known by the name "smart card") and bank ...

30 a pseudo-random-number generator circuit con- plet to said digital scrambling circuit ... generator
circuit means for producing encrypted subsequence mes-86 sages (EMM) specific to ...

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 ... P. Brockmeyer, O. Bult, R. Lakomy, V. Moser-Meyer | *Geodinamica* | 1996 | Springer

Abstract: The occurrence of shock metamorphic features substantiates an impact origin for the 1.85 Ga old Sudbury Structure, but this has not been universally accepted. Recent improvements in knowledge of large-scale impact processes, combined with new petrographic ...

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 ... R. Lakomy | *Meteoritics & Planetary Science* | 1997 | [Wiley InterScience](#)

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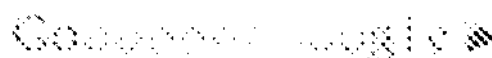
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One major objective of our Sudbury project was to define origin and age of the huge breccia
units below and above the Sudbury Igneous Complex (SIC). The heterodiplite Fegitak Breccia
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Evolution, Held August 11 - September 2, 1992 in Sudbury, Ontario, Canada ...
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